

Course Structure:

Scheme of Teaching and Examination

M.Sc. (Applied Electronics)

SEMESTER PATTERN

SEMESTER: FIRST

T: Lectures, P: Practical, TU: Tutorial/Assignment

[illegible]

		TOTAL	1 8	12	22	04	-	--	--	450	--	--	--	17 5	--

Total Credits: 26

1AE10Free Elective (Audit): 1AE101Electronic Devices & Components, 1AE102 Introduction to Lab Electronic Instruments

Scheme of Teaching and Examination
M.Sc. (Applied Electronics)
SEMESTER PATTERN
SEMESTER: SECOND

T: Lectures, P: Practical, TU: Tutorial/Assignment

S N	Subje ct Code	Name of Subject	Hrs/ Week		Credits		Examination Scheme								
							Theory				Practical				
			T	P/ TU	Th eo ry	Pr act ica l	P a p e r H r s	M a x Th eo ry	M a x In te rn al	Tot al	Min Passi ng Grad e Point s	M a x M ar ks Pr ac tic al	M a x M ar ks Int . As s	To ta l	Min Pas sin g Gr ad e Poi nts
1	2AE1	Linear Integrated Circuits	04	01	05		3	80	20	100	4	--	--	--	--
2	2AE2	Communication Engineering	04	01	05		3	80	20	100	4	--	--	--	--
3	2AE3	Digital Integrated Circuits	04	01	05		3	80	20	100	4	--	--	--	--
4	2AE4	Microprocessor and Microcontroller	04	01	05		3	80	20	100	4	--	--	--	--
5	2AE5 x	Professional Elective	04	01	05		3	80	20	100	4	--	--	--	--
6	2AE6	Integrated Circuits Laboratory		P 02		01	-	--	--	--	--	25	25	50	5
7	2AE7	Professional Elective Laboratory		P 02		01	-	--	--	--	--	25	25	50	5
8	2AE8	Microprocessor and Microcontroller Laboratory		P 02		01	-	--	--	--	--	25	25	50	5
9	2AE9	Basic Electronic Workshop		P 02		01	-	--	--	--	--	25	25	50	5

Total Credits: 27

3AE4x Professional Elective#1: 3AE41 Embedded System Design, 3AE42 Electronic Circuit Design

3AE5x Professional Elective#2: 3AE51 Introduction to Fuzzy Logic and Neural Networks, 3AE52 Computer Organization

3AE9x Free Elective (Audit): 3AE91 Industrial Management, 3AE92 IPR and Patents

**Scheme of Teaching and Examination
M.Sc. (Applied Electronics)
SEMESTER PATTERN
SEMESTER: FOURTH**

T: Lectures, P: Practical, TU: Tutorial/Assignment

S N	Subje ct Code	Name of Subject	Hrs/ Week		Credits		Examination Scheme								
							Theory				Practical				
			T	P/ T U	T he or y	Pr ac tic al	P ap er H rs	M ax Th eo ry	M ax In te rn al	Tot al	Min Passin g Grade Points	M ax M ark s Pr act ica l	M ax M ark s Int · As s	To tal	Mi n Pas sin g Gra de Poi nts
1	4AE1	Microwave Engineering	0 4	01	05		3	80	20	100	4	--	--	--	--
2	4AE2	Optical Fiber Communications	0 4	01	05		3	80	20	100	4	--	--	--	--
3	4AE3	Mobile Communications	0 4	01	05		3	80	20	100	4	--	--	--	--
4	4AE4 x	Professional Elective#1	0 4	01	05		3	80	20	100	4	--	--	--	--
5	4AE5 x	Professional Elective#2	0 4	01	05		3	80	20	100	4	--	--	--	--
6	4AE6	Microwave Engineering and Optical Fiber Communications Laboratory		P 02		01	-	--	--	--	--	25	25	50	5
7	4AE7	Professional Elective#1 Laboratory		P 02		01	-	--	--	--	--	25	25	50	5
8	4AE8	Project and Seminar		P 06		12	-	--	--	--	--	10 0	10 0	20 0	5
9	4AE9 x	Free Elective (Audit)	--	--	--	--	-	--	--	--	--	--	--	--	--
		TOTAL	2 0	15	25	14	-	--	--	500	--	--	--	30 0	--

Total Credits: 39

Grand Total of Credits: 121for four semesters

4AE4x Professional Elective#1:4AE41 DSP with TMS 320C54xx, 4AE42 Digital Image Processing

4AE5x Professional Elective#2:4AE51 Smart Sensors, 4AE52 Biomedical Engineering

4AE9x Free Elective (Audit):4AE91 Engineering Ethics, 4AE92 Technical Writing

During tenure of the course, every student has to undertake laboratory course based on their common and special papers which cover experiments on Electrical Engineering & Network analysis, Electronic Devices and Circuits, Object Oriented Programming C++, Communications Skills, Integrated Circuits, Professional Electives, Microprocessor and Microcontroller, Basic Electronics Workshop, Digital signal Processing, Microwave Engineering and Optical Fiber Communications. The students have to complete a project work for successful completion of the course.